

What is claimed is:

1. A liquid crystal display apparatus comprising:

a first substrate including:

5 a first transparent substrate having a pixel area;

a pixel voltage applying part disposed at the pixel area so as to
output a pixel voltage;

a color filter disposed at the pixel area;

10 a color filter spacer disposed between the pixel area and an adjacent
pixel area, the color filter spacer having a same material as the color filter; and

a pixel electrode disposed on the color filter so as to receive the pixel
voltage;

a second substrate including:

15 a second transparent substrate combined with the first transparent
substrate; and

a common electrode disposed on the second transparent substrate,
which is corresponding to the pixel electrode; and

liquid crystal disposed between the first and second substrates.

20 2. The liquid crystal display apparatus of claim 1, wherein the color filter
comprises a red color filter, a green color filter and a blue color filter, and the color
filter spacer comprises at least one of a red color filter spacer, a green color filter
spacer and a blue color filter spacer.

25 3. The liquid crystal display apparatus of claim 1, wherein the second

substrate further comprises a light blocking pattern having a lattice-shape, which is disposed on the common electrode, the light blocking pattern that transmits light incident into the pixel area and blocks light incident into between the pixel area and the adjacent pixel area.

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4. The liquid crystal display apparatus of claim 3, wherein the liquid crystal comprises liquid crystal molecules vertically aligned, and the second substrate further comprises a light visual angle pattern disposed on the common electrode and formed at a position corresponding to the pixel area so as to widen a visual angle of an image.

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5. The liquid crystal display apparatus of claim 1, wherein the second substrate further comprises a light blocking pattern having a lattice-shape, which is disposed between the second transparent substrate and common electrode and formed at a position corresponding to a space between the pixel area and adjacent pixel area, so as to block light incident into between the pixel area and the adjacent pixel area.

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6. The liquid crystal display apparatus of claim 5, wherein the liquid crystal comprises liquid crystal molecules vertically aligned, and the second substrate further comprises a light visual angle pattern disposed between the second transparent substrate and common electrode and formed at the position corresponding to the pixel area so as to widen a visual angle of an image.

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7. The liquid crystal display apparatus of claim 1, wherein the second

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substrate further comprises:

a light blocking pattern having a lattice-shape, which is disposed on the common electrode and formed at a position corresponding to a space between the pixel area and adjacent pixel area, so as to block light incident into between the pixel area and the adjacent pixel area; and

a photosensitive pattern disposed on the light blocking pattern.

8. The liquid crystal display apparatus of claim 7, wherein the liquid crystal comprises liquid crystal molecules vertically aligned, and the second substrate further comprises a first light visual angle pattern disposed on the common electrode and formed at a position corresponding to the pixel area so as to widen a visual angle of an image and a second light visual angle pattern disposed on the first light visual angle pattern.

9. The liquid crystal display apparatus of claim 1, wherein the second substrate further comprises:

a light blocking pattern having a lattice-shape, which is disposed between the second transparent substrate and common electrode and formed at a position corresponding to a space between the pixel area and adjacent pixel area, the light blocking pattern that transmits light incident into the pixel area and blocks light incident into between the pixel area and the adjacent pixel area; and

a photosensitive pattern disposed on the light blocking pattern.

10. The liquid crystal display apparatus of claim 9, wherein the liquid crystal comprises liquid crystal molecules vertically aligned, and the second

substrate further comprises a first light visual angle pattern disposed between the first transparent substrate and common electrode and formed at a position corresponding to the pixel area so as to widen a visual angle of an image and a second light visual angle pattern disposed on the first light visual angle pattern.

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11. The liquid crystal display apparatus of claim 1, wherein the liquid crystal comprises liquid crystal molecules vertically aligned, and

wherein the second substrate further comprises:

10 a light blocking pattern having a lattice-shape, which is disposed between the second transparent substrate and common electrode so as to transmit light incident into the pixel area and block light incident into between the pixel area and the adjacent pixel area; and

a light visual angle pattern disposed on common electrode and formed at a position corresponding to the pixel area so as to widen a visual angle of an image.

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12. The liquid crystal display apparatus of claim 11, wherein the second substrate further comprises a transparent spacer disposed on the common electrode corresponding to the light blocking pattern.

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13. The liquid crystal display apparatus of claim 1, wherein the second substrate further comprises a light visual angle pattern disposed on the common electrode corresponding to the pixel area so as to widen a visual angle of an image.

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14. The liquid crystal display apparatus of claim 13, wherein the second substrate further comprises a transparent spacer disposed on the common electrode

corresponding to the color filter spacer.

15. The liquid crystal display apparatus of claim 1, wherein the liquid crystal comprises liquid crystal molecules vertically aligned, and the second substrate further comprises a light visual angle pattern disposed between the common electrode and second transparent substrate and formed at a position corresponding to the pixel area so as to widen a visual angle of an image.

16. The liquid crystal display apparatus of claim 15, wherein the second substrate further comprises a transparent spacer disposed between the common electrode and second transparent substrate and formed at a position corresponding to the color filter spacer.

17. A method of manufacturing a liquid crystal display apparatus, comprising:

forming a first substrate including:

forming a pixel voltage applying part so as to output a pixel voltage to each pixel area of a first transparent substrate;

forming a color filter and a color filter spacer having a same material as the color filter, the color filter corresponding to the pixel area and the color filter spacer being formed at a position corresponding to a space between the pixel area and an adjacent pixel area; and

forming a pixel electrode on the color filter to form a first substrate, the pixel electrode receiving the pixel voltage;

forming a common electrode, which is facing the pixel electrode, on a second

transparent substrate to form a second substrate, the second transparent substrate combining with the first transparent substrate; and

disposing liquid crystal between the first and second substrates.

5 18. The method of claim 17, wherein the color filter and color filter spacer are formed by:

forming a red color filter layer on the second transparent substrate;

10 patterning the red color filter layer to form a red color filter at an n th pixel area, where n is a natural number, and a red color filter spacer between the pixel area and the adjacent pixel area;

forming a green color filter layer on the second transparent substrate;

 patterning the green color filter layer to form a green color filter at an $(n+1)$ th pixel area and a green color filter spacer on the red color filter spacer;

forming a blue color filter layer on the second transparent substrate; and

15 patterning the blue color filter layer to form a blue color filter at an $(n+2)$ th pixel area and a blue color filter spacer on the green color filter spacer.

 19. The method of claim 17, prior to forming the common electrode, further comprising:

20 forming a light blocking layer on the second transparent substrate; and

 patterning the light blocking layer to form a light blocking pattern having a lattice-shape, the light blocking pattern transmitting light incident into the pixel area and blocking light incident into between the pixel area and adjacent pixel area.

25 20. The method of claim 19, wherein a light visual angle pattern is further

formed on the second transparent substrate so as to widen a visual angle of an image while the light blocking layer is pattern.

21. The method of claim 17, prior to forming the common electrode,
5 further comprising:

forming a light blocking layer on the second transparent substrate;

forming a transparent organic layer on the light blocking layer;

patterning the transparent organic layer to form a transparent spacer facing
the color filter spacer; and

10 patterning the light blocking layer to form a light blocking pattern under the
transparent spacer.

22. The method of claim 21, wherein a light visual angle pattern is further
formed on the second transparent substrate corresponding to the pixel area so as to
15 widen a visual angle of an image while the light blocking layer is pattern.

23. The method of claim 17, prior to forming the common electrode,
further comprising:

forming a light blocking layer on the second transparent substrate;

20 forming a photosensitive layer on the light blocking layer; and

patterning the photosensitive layer to form a first photosensitive pattern
having a lattice-shape, the first photosensitive pattern transmitting light incident into
the pixel area and blocking light incident into between the pixel area and adjacent
pixel area; and

25 patterning the light blocking layer using the first photosensitive pattern as a

mask to form a light blocking pattern under the first photosensitive pattern.

24. The method of claim 23, wherein the first photosensitive pattern is formed by:

5 patterning the photosensitive layer formed at a position facing the pixel area to form a second photosensitive pattern; and

patterning the light blocking layer using the second photosensitive pattern as a mask to form a light visual angle pattern.

10 25. The method of claim 17, after forming the common electrode, further comprising:

forming a light blocking layer on the common electrode; and

15 patterning the light blocking layer to form a light blocking pattern having a lattice-shape, the light blocking pattern transmitting light incident into the pixel area and blocking light incident into between the pixel area and adjacent pixel are.

20 26. The method of claim 25, wherein a light visual angle pattern is further formed on the common electrode corresponding to the pixel area so as to widen a visual angle of an image while the light blocking layer is pattern.

27. The method of claim 25, after forming the common electrode, further comprising:

forming a transparent organic layer on the common electrode; and

25 patterning the transparent organic layer to form a transparent spacer at the light blocking pattern facing the color filter spacer.

28. The method of claim 27, wherein the pattern of the transparent organic layer further comprises forming a light visual angle pattern at a position facing the pixel area by patterning the transparent organic layer.

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29. The method of claim 17, after forming the common electrode, further comprising:

forming a light blocking layer on the second transparent substrate;

forming a photosensitive layer on the light blocking layer; and

10 patterning the photosensitive layer to form a first photosensitive pattern having a lattice-shape, the first photosensitive pattern transmitting light incident into the pixel area and blocking light incident into between the pixel area and adjacent pixel area; and

15 patterning the light blocking layer using the first photosensitive pattern as a mask to form a light blocking pattern.

30. The method of claim 29, wherein the first photosensitive pattern is formed by:

20 patterning the photosensitive layer formed at a position facing the pixel area to form a second photosensitive pattern; and

patterning the light blocking layer using the second photosensitive pattern as a mask to form a light visual angle pattern.